

Long May It Wave!

Flag Day Service By Elks On Wednesday Night Will Give All Opportunity To Honor 'Old Glory'

One of the outstanding patriotic programs of the year that should appeal to all Y-12ers and members of their families is the annual observance of Flag Day. In Oak Ridge the tribute to Old Glory will be paid in the Flag Day Service given by Gk Ridge Lodge, No. 1,684, of the Old Glory Elks, which presented the program last year at Blankenship Field when an audience of several thousand was present.

The service this year is set for 8 o'clock tonight, Wednesday, June

14, again at Blankenship Field. Another overflow crowd is expected to attend the dignified and impressive pageant that depicts the history of the different flags of the country since its founding.

History To Be Given

During the program each flag that has symbolized the nation will be escorted to the center of the field and its history recited by George J. McNamee, past exalted ruler of the Oak Ridge Elks Lodge and Superintendent of the Y-12 Cafeteria and Canteen. Color guards will be provided by the Tennessee National Guard and the United States Naval Reserve with music offered by the Oak Ridge band. All Oak Ridge veterans organizations also will participate in the program.

The principal speaker on the pro-

gram will be Ray O. Shehan, of Harlan, Ky. He is past post, district and department commander of the Kentucky Department of the American Legion.

Stresses Honor And Loyalty

The annual Flag Day Service of the Elks is a mandatory event under ruling of the national organization to stress the honor and loyalty due the flag by all Americans. The first United States flag, the third oldest of the national standards of the world, first was authorized by Congress on June 14, 1777, the date that now is celebrated throughout the nation as Flag Day. The first flag was a development of several used in early Revolutionary battles and the emblem authorized by Congress had 13 alternating red and white

(Continued on Page 4)

Two More Depts. In Major League 'All Present'

For the second consecutive week two departments in the Major League, named of departments with more than 40 employees scheduled, reported perfect attendance records for the week period ending June 4. This equaled the mark established the preceding week, but for the week ending June 4 the two departments on top in the Major League were two different groups from the pair that tied for top position for the week ending May 28.

Two Leaders Are Newcomers

The newcomers to the Major League for the week ending June 4 were Chemical and Stores Chemical advanced from third place held during the week ending May 28 and Stores held fifth place during that week.

Second place in the Major League went to the Assay Laboratory with an absentee mark of .4 per cent. This department was in fourth place for the week ending May 28. In third place was Product Chemical with an even one per cent of its employees absent and which advanced from sixth place held the preceding week.

Nine Others "All Present"

The number of departments in the Minor League with perfect attendance figures increased from

(Continued on Page 2)

Y-12ers Are Urged To Keep Beneficiaries' Names Current

All Y-12ers enrolled in the Carbide Group Insurance Plan, the Savings Plan or Retirement Plan are urged to be sure to notify the Company when any changes in beneficiaries are made. This is important so that the Company records can be kept up to date and also to make sure that the intent of the employee as to who is to be beneficiary of the company benefits is clear.

Employees wishing to change beneficiaries in their Carbide Group Insurance Plan policies may do so by visiting the Y-12 Insurance Office, North Portal. Changes in beneficiaries in the Savings and Retirement Plans may be made at the office of the Paymaster, Room 17, Bldg. 9704-2.

Second Annual Union Carbide Picture Contest Set October 5

The second annual photographic print contest for all employees of units of Union Carbide and Carbon Corporation will be held in New York City October 5. This group is not to be confused with the Carbide Camera Club of Oak Ridge as the New York group is composed of Union Carbide employees in the New York area.

All Union Carbide employees throughout the country are invited to enter the contest sponsored by the New York club. Entries will be exhibited in the Union Carbide building, 30 East 42nd St., New York, and winners will be selected by three nationally known judges.

A handsome silver trophy will be awarded the winner for the "Picture of the Year." In addition there will be three other prizes and three honorable mentions.

The contest is limited to black and white photographic prints which should be at least eight by 10 inches in size. Only one picture may be entered and it must be mounted on a 16 by 20-inch cardboard mount to insure uniformity in exhibition.

The first annual Union Carbide photographic contest was held May 19, 1949. However, sponsors of the event decided to hold the contest later this year so that entrants would have the entire summer in which to shoot pictures for the occasion.

The 1949 contest drew a large number of entries, including several from Oak Ridge. Y-12ers in the contest included Nat Stetson, Don Ross and John Ramsey.

The 1949 Union Carbide event's "Picture of the Year" was taken by David J. Stanley, a cost accountant at the Linde Air Products Co., Tonawanda, N. Y. It was a seascape taken early in the morning. More information on the Union Carbide picture contest will be announced in The Bulletin as soon as received from New York.

'The Judgement Of Paris' On Radio Program Sunday

"The Judgement of Paris" will be the story theme of the third presentation of the radio program, My Favorite Story, over Oak Ridge Radio Station WATO Sunday night, June 18. The broadcast will be given from 7 p.m. to 7:30 p.m. and is sponsored by Carbide.

"The Judgement of Paris" was written by Leonard Marrick. It was selected for radio presentation by Cornelia Otis Skinner, well-known actress. Ronald Coleman will act as commentator on the program.

Y-12 Stable Isotopes Go For Cancer Work

One of the five shipments of stable isotopes made by the Y-12 Isotope Research and Production Department during the month of May was consigned to the Oak Ridge Institute of Nuclear Studies for eventual use in research at the Cancer Research Hospital in Oak Ridge.

The shipment was of Gallium 71. Sent to the institute, it was forwarded to the Oak Ridge National Laboratory for irradiation to Gallium 72, making it radioactive for use in the Cancer Research Hospital.

The five shipments made in May compared to 35 in April and 15 in March.

In addition to the consignment to the Oak Ridge Institute of Nuclear Studies, the Brookhaven National Laboratory of the Atomic Energy Commission requested and was supplied with stable isotopes of Tungsten 186 and Tin 118. The University of California Radiation Laboratory, also operated by the AEC, received isotopes of Selenium 77.

The only shipment to laboratories outside the AEC project circle was one of Titanium 50 to Vanderbilt University, Nashville.

Chemistry's Role In Auto Cleaners Will Be Revealed

Progress made in improving automobile cleaning and polishing materials through chemistry will be the topic of discussion on the weekly radio program, Headlines in Chemistry, to be heard over Oak Ridge Radio Station WATO at 9:15 o'clock Sunday night, June 18. Joseph Ruzika, of the Atomic Energy Commission, will be the principal speaker. C. D. Susano, of Y-12, will be host at the broadcast and introduce the speaker.

Roberta McCutcheon, of the Y-12 Technical Service Laboratory, will be featured on the June 25 program, speaking on the role of chemistry in the welfare of pets.

Interest Growing In Credit Union; Savings Opportunity Is Stressed As Well As Lending Facilities

Interest in the Y-12 Employees' Credit Union, final organization of which is expected to be perfected in the near future, has been growing rapidly since announcement of intention of forming the group was announced in The Bulletin May 31. Application for charter was made on that date and J. T. Rutland, credit union examiner of the Federal Credit Union Agency, of Atlanta, who helped the Y-12 plant-wide committee file the application, said that the charter probably would be approved and returned here in about two weeks from the date of application.

Committee Lays Groundwork

Meanwhile, the plant-wide committee, composed of employees from all parts of Y-12, has been laying the groundwork for permanent organization of the Y-12 Employees' Credit Union as soon as the charter arrives. As a result, committee members state that they expect to be ready to place the credit union in operation shortly after the federal authority is granted through the charter.

Members of the committee have been stressing the thrift and savings angle of the credit union as well as the advantages offered seekers of loans to be repaid in installments at low interest rate. The interest paid on shares in the credit union is fixed by a vote of the general membership or by the board of directors. The rate of interest paid by depositors is one per cent per month on unpaid balances.

Shares Are \$5 Each

Committee members report they have been asked by a number of Y-12ers for opportunity to invest in the credit union. Shares in the organization will sell for \$5 each and may be purchased for as little as 25¢ per week.

Credit unions have increased by leaps and bounds through the nation during the last several years. Governed by both state and federal laws, credit unions function as a protective banking group for specific and limited purposes and solely for the welfare of its prescribed membership. The general idea is simple—it is a group of persons banded together for the purpose of pooling their savings so that, in time of need, they may borrow from this pool at the prescribed interest rate and also participate in the earning yield of their collective investments or savings.

Committee Active Several Weeks

The Y-12 plant committee that has been handling preliminary details of organizing the credit union has been active for several weeks. It is composed of Don Phillips, Technical Service Laboratory; Winfred Ray, Product Chemical; Clarence E. Johnson, Safety Department; W. K. Palmer, Manufacturing Offices; and Allen M. Schrader, Field Maintenance.

The first step to be taken here after receipt of the charter, committee members point out, will be to call a general meeting of all Y-12ers interested in the credit union for the purpose of electing the board of directors and officers and appointing the standing committees. This will be necessary before the credit union actually can begin operations, and as about 130 Y-12 employees already have signified their interest in the project, it is expected that the organization meeting when held will draw a large attendance with all segments of the plant represented.

ORINS Honors Dr. C. P. Keim As May Scientist



Dr. C. P. Keim

Dr. C. P. Keim, Superintendent of the Y-12 Isotope Research and Production Department, has been named "scientist of the month" in the May issue of the News Letter, monthly publication of the Oak Ridge Institute of Nuclear Studies.

The News Letter feature is the ninth in a series of articles introducing Oak Ridge scientists to members of the science departments of the institute's 24 sponsoring universities.

The following is a reprint of the article from the News Letter:

"Stable isotopes have never had the glamour associated with their radioactive cousins, although they constitute a most valuable tool in certain areas of research. Although several stable isotopes may be obtained commercially, the Atomic Energy Commission is by far the largest producer and distributor. Practically all of the commission's stable isotopes are concentrated in the electromagnetic plant at Oak Ridge, known locally as Y-12. A part of the vast facilities for separating the uranium isotopes has been turned over to a vigorous program of research and production of stable isotopes.

In Y-12 Since 1944

"The man in charge of the Stable Isotope Research and Production Division at Y-12 is Dr. Christopher Peter Keim, a native of the great

(Continued on Page 2)

SAFETY SCOREBOARD

Your Plant Has

Operated

355 DAYS

Without A Lost Time

Accident

THROUGH JUNE 11

The Bulletin

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Y-12 Employees Of
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Two More Departments Report 'All Present'

(Continued from Page 1)

seven for the week ending May 28 to nine during the next week. Of the nine with the "all present" record, six were repeaters from the previous week.

The six departments out of the seven with perfect records for the week ending May 28 that duplicated the mark for the next week were the Laundry, Cafeteria and Canteen, Receiving and Shipping, Planning and Estimating, Steam Plant and Property. The other three departments advancing to a tie for first place were Maintenance Utilities, Technical Service Laboratory and Employee Relations. They advanced from second, third and fifth positions held the preceding week.

Manufacturing Offices Advances

In second place in the Minor League for the week ending June 4 was Manufacturing Offices with an absentee mark of an even one per cent and which advanced from fourth place held the preceding week. Third place was taken by Uranium Control and Computing with 1.8 per cent of its personnel absent. This department was in a first-place tie the preceding week.

The plant-wide absentee record for the week ending June 4 was 1.7 per cent, an increase of just .1 per cent from the previous week when the plant record for low absenteeism was tied. The record, by departments, follows:

MAJOR LEAGUE				
Dept.	Absent	6-4-50	5-28-50	
2619	0.0	1	3	
2142	0.0	1	5	
2283	0.4	2	4	
2616	1.0	3	6	
2015	1.1	4	1	
2320	1.5	5	10	
2003	1.6	6	2	
2300	1.65	7	1	
2282	1.66	8	11	
2360	1.9	9	10	
2091	2.3	10	8	
2014	3.1	11	7	
2077	4.0	12	9	

Group absentee percentage was 1.6 per cent, .3 per cent higher than the preceding week.

MINOR LEAGUE				
Dept.	Absent	6-4-50	5-28-50	
2096	0.0	1	1	
2107	0.0	1	1	
2143	0.0	1	1	
2002	0.0	1	1	
2743	0.0	1	1	
2140	0.0	1	1	
2005	0.0	1	2	
2270	0.0	1	3	
2109	0.0	1	5	
2133	1.0	2	4	
2739	1.8	3	1	
2200	2.96	4	6	
2060	3.03	5	8	
2008	4.0	6	7	
2046	6.7	7	9	
2001	8.5	8	9	

Group absentee percentage was 2.1 per cent, .2 per cent lower than the preceding week.

The plant average for the week ending June 4 was 1.7 per cent, .1 per cent higher than the preceding week.

Physics Seminar Meet Topic Is 'Nuclear Specific Heat'

"Nuclear Specific Heat" will be the topic of discussion at the meeting of the Oak Ridge Physics Seminar at 4 o'clock Friday afternoon, June 16. The session will be held in the East Lounge of the Ridge Recreation Hall and all Y-12 technical and scientific personnel are invited to attend.

S. F. Malaker, of the Oak Ridge Institute of Nuclear Studies and the Oak Ridge National Laboratory, will lead the discussion.

ORINS Honors Dr. C. P. Keim As May Scientist

(Continued from Page 1)

state of Nebraska but a resident of Oak Ridge from its early days and now a well-confirmed East Tennessean. Dr. Keim has been associated with Y-12 since 1944, first as a senior physicist with the Tennessee Eastman Corporation and as physicist and division head with the Carbide and Carbon Chemicals Division, of Union Carbide and Carbon Corporation, which now operates the electromagnetic plant.

"Like many other willing workers, Dr. Keim has been tapped by the institute for a variety of duties. He is a member of the committee on admissions, serving with the physics sub-committee, a member of the committee on awards, and a member of the technical advisory committee for the American Museum of Atomic Energy. When a group of 200 Nebraska farmers visited the museum during the winter, Dr. Keim joined a group of other transplanted Nebraskans to show them through the museum. He made a willing and able guide.

Active In Civic Life

"Dr. Keim is one of the scientific community's most active members in the civic life of Oak Ridge. As president of the Lions Club, he amiably supervises a sizeable amount of tail-twisting and similar goings-on. He is a member of the board of trustees of the First Methodist Church of Oak Ridge and is active in many other organizations.

"Dr. Keim's career has veered back and forth between chemistry and physics ever since his undergraduate days at Nebraska Wesleyan University. He received a master of science degree in physics from the University of Nebraska, and a Ph.D. in chemistry from the same institution, where he was a Samuel Avery Fellow. But he also did graduate work in physics and taught in the department at the University of Pittsburgh. He was head of the department of physical sciences at York College in Nebraska, and a member of the chemistry staff at the University of Tulsa. He is a member of the American Chemical Society, the American Physical Society, Sigma Pi Sigma (physics), Phi Lambda Upsilon (chemistry), Sigma Xi and other scientific organizations.

"In addition to his teaching experience, Dr. Keim did development work with the engineering department of the Lincoln Telephone and Telegraph Co. and carried out research in fluorescent coatings with the Sylvania Electrical Products Corporation in Salem, Mass.

"Dr. Keim is one of six Oak Ridge men listed in "Who's Who in America."

"The Keims live at 102 Orchard Lane and have two children."



The following Y-12 employees became parents of babies born recently at the Oak Ridge Hospital: Roy M. James, girl, June 5; Norman H. MacKay, boy, June 8.



The following Y-12 employees were patients at the Oak Ridge Hospital last week: Roberta McCutcheon, Technical Service Laboratory; William Hinkleman, Electrical Maintenance; Herman J. Powell and James W. Young, Maintenance Shops; Mary F. William, Janitors.

Few people would be in debt if they didn't spend what their friends think they make.



Y-12 Photos by Vince Moore

A NUMBER OF PRESENT AND FORMER Y12-ERS ARE MEMBERS OF THE CHOIR of the Grace Lutheran Church of Oak Ridge, pictured above. In this group are 24 of the 31 members of the singing group, led by Edward G. Struxness, of Y-12, left. Members well known in Y-12 include Mrs. W. O. Mickelson, third from left in front row; Mrs. W. B. Cottrell, fifth; in second row Mrs. J. E. Lee, first; Mrs. George Marrow, third; Mrs. Struxness, fourth; in back row J. C. Little, first; E. C. Long, second; Joe White, Jr., fourth; George Marrow, fifth; J. E. Lee, eighth; and Harold Green, 10th.



A Y-12 girl with her head in the clouds—literally and figuratively—recently was Juanita Reed, of the Badge and Pass Office. Not so long ago she observed a birthday and her mother bequeathed a gift of a round trip airplane ticket to New York. It was two big "firsts" for Juanita—an airplane flight and a visit to the big city. Did she have fun—Just ask her if you have 30 minutes to spare. Anyhow, she came back aglow, tired and happy.

Product Chemical Department reports that Liz and Fuzz (the C. E.) Harrises—Oak Ridge's typical family according to International News Service—are vacationing over Memphis way... John Walpool and family got as far as Nashville on their vacation... Folks down that way are congratulating N. H. MacKay over becoming the proud papa of a son born June 8 at the Oak Ridge Hospital. The youngster weighed eight pounds and 11 ounces.

Grace Trammel, of Electrical Maintenance, spent a one-week vacation at her home in Smithville, Tenn... W. M. Akers and family are touring the northern states and visiting relatives in Michigan while vacationing... The department welcomes C. A. Gregory back after an illness... E. C. Gross is vacationing for two weeks, destination unreported... The department extends sympathy to H. L. Buck and family over the death of his mother-in-law in Nashville.

Inez Tropp, of Property, had as recent guests a couple of former Y-12ers, Bill and Marjorie Ellison and baby daughter, Holly, from Rockport, Ind.

Receiving and Shipping tells us that E. L. Bailey is vacationing for two weeks at LaFollette.

A. O. Phillips, of the Tool Department, is spending a two-week vacation at LaFollette and Middlesboro, Ky.

Lexington, Ky., is the vacation site for G. L. Unthank, of Stores, with his family.

Here is some more news from Product Chemical... Rella Murr has joined the Daytona Beach delegation for a week... Corrine Snyder has returned from a vacation spent at her home in Tazwell, Tenn... C. L. Matthews and family recently vacationed in Biloxi, State of Gulf, Mississippi... Florida also attracted J. M. Lister and family for a vacation, Sarasota providing the site.

Damon and W. C. Nelson, of the Guard Department, started out their vacation with their families at Tullahoma, catching up with a little fishing, and then went on to visit some relatives in Pueblo, Tex... C. C. Evans and family are vacationing in Spartanburg and

Myrtle Beach, S. C., with a stop at Fontana for—oh sure, fishing.

Dr. Anne W. Robinson, of the Y-12 Dispensary, is a justly proud lady these days. Dr. Robinson, her son and daughter-in-law, motored to Minnesota to attend the graduation exercises on June 10 of her daughter at the University of Minnesota where she completed her pre-medical course. She was graduated with the highest honors—summa cum laude—and majored in bacteriology in the College of Science, Literature and Art.

The Medical Department sends get well wishes to Penny Keene who is a patient in St. Mary's Hospital, Knoxville.

Among the automobile race fans who took in the abbreviated 500-mile race (cut to 345 because of rain) were W. R. Grimes and K. B. Brown, both of Chemical Research. Grimes spent a week's vacation in Crawfordsville, Ind., and Brown vacationed for a similar period in Troy, Tenn... Dave Crouse is back from a one-week vacation spent at his home in Pennsylvania... Dr. L. G. Overholser vacationed for one week recently in North Carolina.

Roy M. (Red) James, of the Training Department, renewed his membership in the Proud Papas of America Association June 5 when Mrs. James presented him with a fine baby girl, born June 5 at the Oak Ridge Hospital. She weighed seven pounds and one ounce and was named Mary Ann. It is the second child for the James family, they already having a bouncing buster of a boy.

The shining and sunny sands of Daytona Beach drew W. C. Davis, of Isotope Research and Production, and family for a week's vacation... Kenneth Allen and his wife spent the Memorial Day holidays with her folks in Rutledge, Tenn... Alma Jane Shaw spent the same period visiting her mother in Duff, Tenn... Bill Burns took the long week end visiting his parents near Rome, Ga... E. L. Zimmerman received his Ph.D. at Ohio State University, Columbus, June 9.

Minnie George is welcomed back to the Janitors Department after a recent illness.

F. A. Hyde, of the Fire Department, is vacationing for two weeks around Oak Ridge.

The Laundry Department reports that Flossie McGhee is vacationing for two weeks at her home in Briceville, Tenn.

Edwina Charles, of the Analytical Laboratory, and her husband spent a recent week end in Andersonville and although their haul wasn't too big, Edwina did come back with a two and one-half pound bass.

(Continued on Page 4)

Y-12er Directs Talented Choir At Grace Church

Ranked among the most talented and best trained church choral groups in Oak Ridge is the choir of the Grace Lutheran Church, of which Edward G. Struxness, of the Y-12 Health Physics Department, is director. A number of Y-12ers, former Y-12 personnel and members of their families are active in this organization.

Choir Take Pride In Work

The Grace Lutheran choir sings a capella, that is without instrumental accompaniment. The proficiency of the choir, the director points out is greatly because of the fact that about 90 per cent of the members have had experience in college choral groups such as glee clubs or choirs and several of them have had professional musical training. In addition to these qualifications, the choir takes great pride in its singing and giving good performances. Several members have appeared in Community Chorus concerts.

Many requests have been made of the Grace Lutheran choir for appearances outside of its own church—such as singing in Easter Sunday sunrise services and other joint religious gatherings. The choir also has given a concert in Knoxville and will appear in a recital in Greeneville, Tenn., in the near future.

Many Members Known In Y-12

Among the choir personnel who are well known in Y-12 are Mrs. W. B. Cottrell, Mrs. George Marrow, Mrs. E. G. Struxness, J. C. Little, E. C. Long, Joe White, Jr., George Marrow, Harold Green, Mrs. W. O. Mickelson, Mrs. J. E. Lee and J. E. Lee.

Choir Director Struxness has held his position for the past two years and the present membership of the choir has been practically intact for that period. The choir was organized about four years ago and most of its present members have been singing together since that time.

Director Highly Praises Choir

Struxness studied music at Northwestern University, Evanston, Ill., and specialized in direction of choral groups. Since graduation he has directed several choirs in Lincoln, Neb., and other mid-western cities but declares that the Oak Ridge Grace Lutheran group is the best with which he has ever been associated.

The Grace Lutheran Church congregation now is meeting in the Woodland School auditorium. However, ground is expected to be broken by the church early in July for a new building on West Gettysburg Ave., in the Woodland section. The Rev. Robert R. Sala is pastor of the church.

A priest met one of his parishioners on the street. The latter's tongue was a bit thick.

"What have you been drinking?" asked the padre.

"A little Three Fathers, Feather."

GOLF LEAGUE PLAY - OFF, TWO TOURNEYS ARE SET



PIPE THE CHEESECAKE (MASCULINE VARIETY) folks! It is the Y-12 men's tennis team in the Oak Ridge City League. From left are Charlie Barton, Vince Moore, Millard Cromer, Fred Hurst, Harold White, Mal Wallis, George Wells, Fred Thomas and Allen Hodges.

Y-12 Photos By Vince Moore

Close Finish Looms In Golf Loop With Season Ending On Friday

A rip-snorting finish looms in the Y-12 Golf League with the regular season schedule slated to be completed Friday of this week and four teams closely bunched at the top of the standings and four more threatening for the coveted fifth spot that will permit entry into the league tournament starting Sunday at the Oak Ridge Golf and Country Club.

In play through last week the Four Hundreds and Hooks were tied for top honors in the league with Bldg. 9212 and the Rough Riders just a short chip shot away. The Green Rays, Rippers, Deacons and Left Overs all will be fighting for that other first division spot in play this week.

The week's schedule follows:

June 13—Four Hundreds vs Bldg. 9212.

June 14—Rough Riders vs Hooks, Chippers vs Four Woods.

June 15—Rippers vs Deacons.

June 16—Left Overs vs Green Rays.

In matches last week the Chippers beat the Deacons by 13 to 23, the Rippers grounded the Green Rays by 12 to 24, the Four Hundreds topped the Hooks 15 to 21 and the Rough Riders walloped the Left Overs by 15½ to 20½. The scheduled tilt between Bldg. 9212 and the Four Woods was postponed because of rain and probably will be played off some time this week.

League standing follows:

Team	W	L	Team	W	L
Four 100s	5½	2	Rippers	4	4
Hooks	5½	2	Deacons	3	4
Bldg. 9212	4	2	Left Overs	3	4
Rough Riders	5	3	Four Woods	2	5
Green Rays	4	3	Chippers	2	6

League Championship Tilts Slated Sunday

An attractive program of events covering the next several weeks has been announced for Y-12 golfers by the Recreation Office, including a playoff for the championship of the Y-12 Golf League, a league tournament and a plant-wide tournament. The date for the first of two inter-company golf tournaments in Oak Ridge also was given. This event will be staged Saturday, June 24, and Y-12 is the defending champion in this contest.

Five Leaders In Play-Off

The five teams in the first division of the Y-12 Golf League at the end of the regular playing period June 16 will vie for the loop title in a play-off scheduled for noon, this coming Sunday, June 18, at the Oak Ridge Golf and Country Club. In case of a tie for the crown, another play-off session will be held Tuesday, June 20.

In connection with the league play-off, a league dog fight will be staged at the same time. Other league teams and players in addition to the play-off teams are invited to enter this event. An entrance fee of 50¢ will be charged for the dog fight with 50 per cent going to the player with the lowest net score, 30 per cent to the next and 20 per cent to the third. In case of ties the prize will be equally divided.

League Tourney Opens June 20

The league tournament is scheduled to get under way Tuesday, June 20. All players who have played at least 27 holes in regular league play or the play-off are eligible. Flights will be arranged according to averages of entrants on play this season. The tournament will be a single elimination affair based on medal play with handicap.

Handsome trophies will be given winners and runner-ups in the championship, first and second flights and flight winners in the third, fourth, fifth, sixth, seventh and eighth flights also will win trophies.

First round matches in this tournament must be completed by Sunday, June 25, second round matches by July 2 and finals by July 10. Matches not played before these deadlines will be forfeited by players failing to appear.

Following this tournament the annual Y-12 plant-wide tournament for all employees will be staged the latter part of July. J. Clyde Bowles is defending champion.

Y-12 Netters Play NEPA Next; Tournament Starts Saturday

The Y-12 men's tennis team will wind up the first half of the season schedule in the Oak Ridge City League Wednesday afternoon of this week against the NEPA racquetters on the Jefferson courts. The matches are slated to start at 5:30 o'clock.

After the close of the first half of the season the league tournament is booked to open Saturday with play being held on both the Jefferson and Townsite Courts. Competition will be held in men's doubles and singles and women's singles and doubles also may be slated if sufficient entries are obtained.

In postponed matches last week the Y-12 netters divided engagements with NEPA and AEC, taking the airplane boys by four matches to none and losing to AEC by the same score. Earlier the Y-12ers were trounced by K-25 by six to one.

BENEFICIAL ACCIDENT

The New York World-Telegram and Sun recently reported that because of accidental discoveries made in studying effects of atomic radiation on blood by Dr. John W. Gofman and a team of researchers at the University of California, the United States Public Health Service is planning a major assault on the dread disease of hardening of the arteries.

Cards Play Lake City, R-A After Even Break With Stores Team; Y-12 Softies Tackle ORNL Next Following Win And Loss Last Week

After splitting a pair of games with Community Stores last week and having a scheduled tilt Tuesday with the tail-end Oliver Springs club, the Y-12 Cardinals will take out after some of the top teams in the Oak Ridge City League in their next two encounters.

This contest are not slated until next Monday night, June 19, and Wednesday night, June 21. The Monday night foe will be the strong team from Lake City while on Wednesday night the formidable Roane-Anderson nine will cross bats with the Y-12ers. Both games are scheduled for 8 p.m. at the Gamble Valley ball grounds.

The Cards dropped a sloppy game last Thursday to Community Stores by coming out on the short end of a 11 to 9 score. Apparently wanting to atone for their earlier mistakes the Y-12ers came back strong Sunday to play one of their best games of the season by turning in a sparkling 5 to 2 triumph.

Elmer Was There Pitching

Elmer Johnson hurled masterful ball for the Cards in that Sunday win, although touched for 10 hits. He whiffed seven and allowed but one base on balls. His mates banged out eight bingles with Bill Asbury being the top slugger with a pair of triples in five trips to the plate. John Addison got two for four, Bob McAllister, subbing for Raines in the third at second base, got two for three and Johnson got one for two. One pleasing high note in the Y-12 play was the errorless game afield.

In contrast, the Thursday night tilt was dull. The Cards outhit Stores in that engagement by 14 to 11, and also outfumbled their opponents by eight bobbles to seven. Lister and Carter shared pitching chores for Y-12 and whiffed nine between them. Addison banged out four hits in six trips to the plate, Asbury got three for five and McAllister two for four.

Line scores of two Y-12 and Community Stores games follow:

Team	R	H	E
Com. Stores	0 0 0	0 4 0	4 3 0
Y-12	0 1 1	0 0 1	0 3 3

Batteries: Community Stores: Brown, Cappola (6) and Coffee. Y-12: Lister, Carter (5) and Noe, Robertson (6).

Team	R	H	E
Y-12	0 1 0	0 2 0	0 1 1
Com. Stores	0 0 0	0 0 0	0 1 1

Batteries: Y-12, Johnson and Noe. Community Stores, Stewart, Brown (6) and Coffee.

SPORTS NEWS

Bums Blank 9212; First Half Near End

With the first half of the season for the Plant Softball League scheduled to end with games of next Tuesday night June 20, the Bldg. 9212 diamonders lost their first game of the season last week, being whitewashed by the Bums June 8 by the score of 7 to 0. In other games last week the Isotopes trounced the All Stars by 8 to 6 on June 8 and on June 6 the Isotopes took the Bums into camp by 7 to 2. The game between the Rippers and All Stars, slated for June 6, was postponed.

That goose-egging handed Bldg. 9212 by the Bums was the feature game of the week. The Bums got away to a flying start for seven runs in the first inning and the scrap was scoreless from then on. The Bums got but four hits, two by Shotts, but took advantage of wildness and errors to stage their big inning.

The Isotopes had to come from behind to whip the All Stars, tallying three runs in the sixth. The All Stars outhit the victors with Schmitt getting two triples out of four times at the plate while Kuhn banged out three bingles in four jaunts. Home runs were pounded out by Davis, Prater and Jefferies.

One Big Inning Wins

Against the Bums, the Istopes had a big five-run fifth inning. Hitting stars were Shotts, Rice

Gragg Took Part In A. B. C. Tourney

Frank Gragg, of the Y-12 Product Chemical Department, spent a few days in Columbus, Ohio, participating in the American Bowling Congress national tournament. This is one of the top tournaments of the year for bowlers of the nation. It was staged June 10-13.

Gragg is one of the top keglers in Y-12 and is the only plant bowler entered in the Columbus event.

SPEEDY ATOMS

According to the Associated Press, Britain has started operation of a traveling wave linear accelerator at its atomic energy base at Harwell which will cause atomic particles to travel at almost the speed of light.

The Y-12 varsity softball team in the Oak Ridge Class A league will get its next taste of action at 7 o'clock Friday night, June 16, when they tackle the Oak Ridge National Laboratory team in the first half of a double-header. The Vagabonds and K-25 clash in the nightcap at 8:30 o'clock. The double-header is slated for the Middletown park.

The Y-12ers also were scheduled to meet the Oak Ridge Motors outfit on Monday night of this week.

An even break was obtained by the Y-12ers last week in a pair of contests. On June 5 they overpowered the Vagabonds by 7 to 2. However, they lost a tough one to the strong Roane-Anderson softies on June 8 by the score of 5 to 4.

Against the Vagabonds Manager Dick Dews' team had a real "walk-away" in the sixth inning, scoring five runs without a hit as a result of numerous bases on balls and hit batsmen. Each team got only three hits in this scrap. It was just a case of too much Loy for Y-12 in the Roane-Anderson tilt as the R-A star settled down after a bad first inning in which Y-12 scored all its runs. Loy allowed only four hits and whiffed 12 of our lads.

Line scores of these two games follow:

Team	R	H	E
Vagabonds	0	1	0
Y-12	0	1	0

Batteries: Vagabonds, Hawkins, Rives and O'Brian. Y-12, Sise and Hale.

Team	R	H	E
Y-12	4	0	0
R-A	2	0	0

Batteries: Y-12, Sise and Hale. Roane-Anderson, Loy and West.

and Walton, of the Bums; while Frazier and Crabtree wielded wicked willows for the Isotopes. Shotts' hits included a home run.

The schedule for the remainder of the first half of the season follows:

June 13—6:30 p.m., Rippers vs Bldg. 9212. 8 p.m., Bums vs All Stars.

June 15—6:30 p.m., Isotopes vs Rippers. 8 p.m., Bldg. 9212 vs All Stars.

June 20—6:30 p.m., Bums vs Rippers. 8 p.m., Isotopes vs Bldg. 9212.

Results of games last week and league standing through last Friday follows:

Team	R	H	E
Bums	0	2	0
Isotopes	2	0	5

Batteries: Bums, Walton and Hale. Isotopes, Killion and Frazier.

Team	R	H	E
Bldg. 9212	0	0	0
Bums	7	0	0

Batteries: Bldg. 9212, Barker and Mustin. Bums, Hale and Walton.

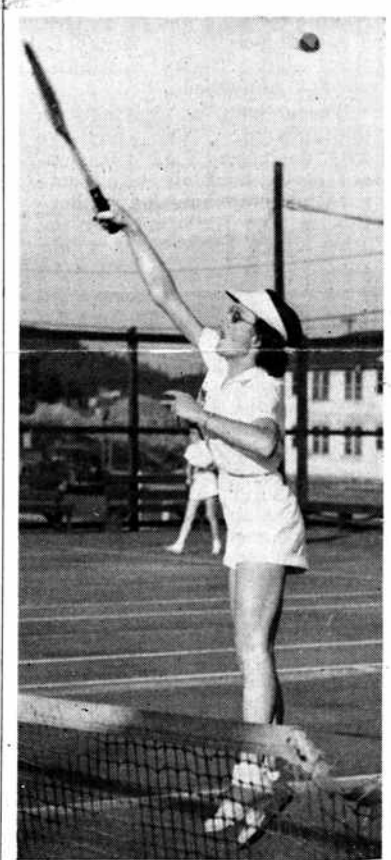
Team	R	H	E
All Stars	1	1	0
Isotopes	1	1	2

Batteries: All Stars, Marrow and Higgins. Isotopes, Frazier and Love.

LEAGUE STANDING

Team	W	L	Team	W	L
Bldg. 9212	3	1	Isotopes	2	3
Bums	3	3	Rippers	1	2
All Stars	2	2			

Women Netters Wallop K-25; Tie With ORNL



Y-12 Photos By Vince Moore

Capt. Lovelle Thompson

The Y-12 women's tennis team continued on top of the Oak Ridge league last week by handing the K-25 lassies 4 to 2 trimming Monday night, June 5, and coming back the next night to divide six matches evenly with the Oak Ridge National Laboratory netters.

Prior to the matches last week the Y-12 team elected Lovelle Thompson captain of the team for the current season. She is rated among the leading netters in Oak Ridge.

The tilts with ORNL were the second within one week for the Y-12 team with the same outcome. In the June 6 engagements Y-12 victories were turned in by Mabelle Rankin over Kazlauskis 6-3, 6-1; Joan Gilliam over Webster 6-0, 6-0; and Elizabeth Patrick over Bayard 6-0, 6-1. Zellers, of ORNL, beat Jean Rogers 6-1, 6-0; Liverman and Gaither topped Helen Burkhalter and Virginia Spivey 6-4, 6-4; and Beyl and Khym trimmed Desma Hutcheson and Phyllis Finneran 6-2, 6-2.

Detailed scores of the Y-12 win over K-25 were not available last week.

The next scheduled matches for the Y-12ers will be against K-25 next Tuesday, June 20.

More Sport News
On Page Four

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Flag Day Service Should Attract Y-12 Families

(Continued from Page 1)
stripes, representing the 13 states, and a rectangular blue field with 13 white stars forming a circle within it. It was first decreed that there should be a star and stripe for each state.

Latest Additions In 1912

In 1795, after the admission of Kentucky and Vermont into the union, the number of stars and stripes was raised to 15. Then, as other states were admitted, it became impractical to add both stars and stripes. Therefore Congress passed a law in 1818 restoring the original 13 alternate red and white stripes to represent the original 13 states and provided for the addition of one star for each state on its admission to the union. The last addition was made on July 4, 1912, when two stars were added—one for Arizona and one for New Mexico—bringing the number to the present 48.

The colors of the American flag are symbolic. The red is for valor, zeal and fervency; white for hope, purity, cleanliness of heart and rectitude of conduct; and blue for epitomizing heaven, reverence to God, loyalty, sincerity, justice and truth.

Y-12ers On Committee

The Flag Day Service of the Elks, being one of its principal public functions, calls for a lodge committee to make arrangements for the program. In addition to McNamee other Y-12ers on the committee include R. R. Tippy and K. S. Lyle.

Y-12ers May Register Saturday For Graduate School Courses

Y-12ers intending to enter summer quarter classes of the University of Tennessee Graduate School under the Oak Ridge Resident Graduate Program may register Saturday, June 17, if they have not already done so. Registration and payment of fees may be made at Room 7, Institute Building, Oak Ridge, from 9 a.m. until noon June 17.

Classes will begin Monday, June 19 and will close August 26 with grade reports to be handed out August 28.

A total of 13 classes will be offered in the summer quarter in chemistry, mathematics and physics. They are:

- Chemistry 574—Advanced inorganic chemistry laboratory.
- Chemistry 647—Heterogeneous equilibria.
- Mathematics 461—Elementary differential equations.
- Mathematics 511—Theory of functions of a complex variable.
- Mathematics 516—Foundations of analysis.
- Mathematics 566—Numerical methods.
- Mathematics 626—Laplace and Fourier transforms.
- Physics 414—Introduction to nuclear physics.
- Physics 441—Instrumentation.
- Physics 451—Atomic physics laboratory.
- Physics 454—Topics in nuclear physics.
- Physics 612—Quantum mechanics.
- Physics 631—Electromagnetic theory of light.

Further information on the subjects and class schedules may be obtained from the Graduate Office in the Institute Building, Oak Ridge, telephone 5-5606; or the Graduate Office, University Administration Building, Knoxville, telephone 3-9379.

People who insist on drinking before driving are putting the quart before the hearse.



(Continued from Page 2)

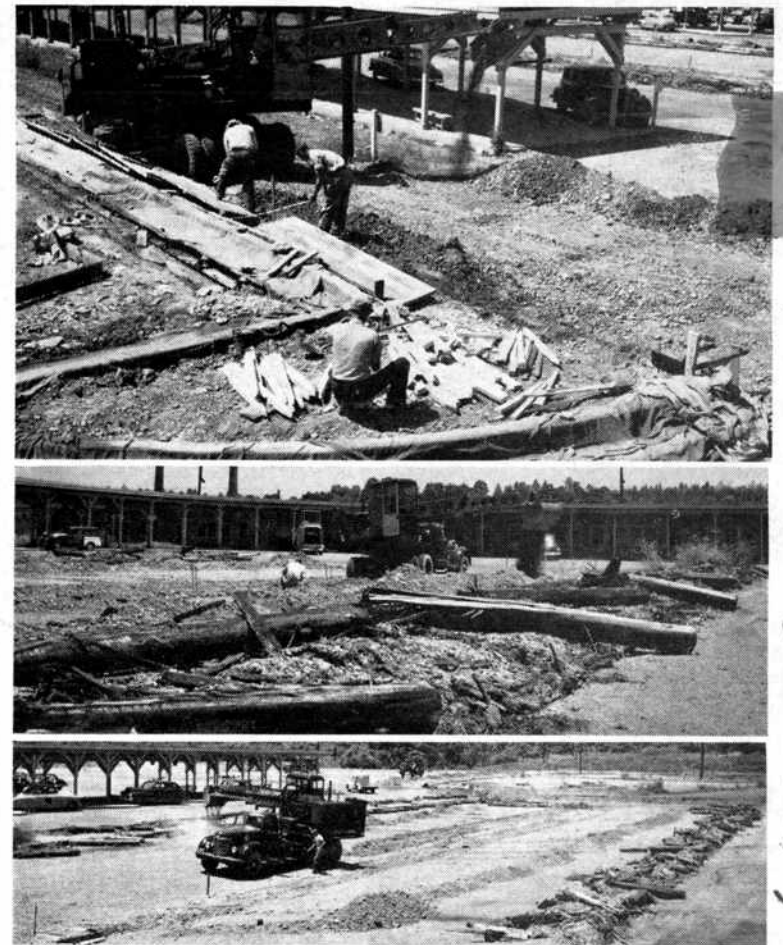
H. R. Floyd, of Chemical is back after a vacation at his home in Sevierville... Harvey Kite and family really got away from it all on vacation, visiting relatives in Wilder, Vt., and touring the New England states.

Nadine Graham and H. R. Gwinn are vacationers in the Assay Laboratory—but their destinations were not announced.

There isn't a shortage in photographic film now—so why don't you Y-12 vacationers check back in with some vacation snapshots for publication in The Bulletin? Let the other folks know what a big time you had.

Eisenhower Decries Fear Of Bombs

Gen. Dwight D. Eisenhower, in a recent address at Temple University in Philadelphia, said that Americans should not be afraid of the hydrogen bomb or the atomic bomb, according to the Philadelphia Inquirer. General Eisenhower saw no need to feel concern that the United States will become an armed camp or police state and called on the nation to stand before the world "with moral rectitude."



Y-12 Photos By Vince Moore

CREWS OF THE HARRISON CONSTRUCTION CO., Maryville, Tenn., are shown with their big trenching machine preparing ground at the North Portal for the new Y-12 parking area in that vicinity. At top the trencher is preparing a level for a sidewalk alongside of the concrete curb already laid on the eastern section of the parking area. In the center the machine is working in the eastern horseshoe section after the old log barriers have been dug out of the ground. The lower picture is another view of the eastern horseshoe work, looking toward Bear Creek Road.

Y-12 Dodgers Set Two Tilts For Week End

The Y-12 Dodgers have scheduled some fine diamond entertainment for the coming week end at the Gamble Valley ball park that should attract a lot of fans.

The Harriman Tigers will provide the opposition at 8 o'clock Saturday night while at 2 o'clock Sunday afternoon the Bakewell, Tenn., All Stars will come to town to meet the Y-12ers. The Bakewell team was undefeated at press time of The Bulletin last week.

A small admission charge is made for the Dodgers' games and Manager Llon Coleman promises the fans plenty of action.

University Opens Atomic Center

The Rochester (N. Y.) Democrat-Chronicle has announced the opening by the University of Rochester of its new \$1,000,000 center for research and training of physicians and technicians in problems relative to atomic energy development. The center was financed by the Atomic Energy Commission. Dr. Henry A. Blair, director of the university's atomic energy project, has announced that the AEC has doubled the number of its health physics fellows who come to the university in September for a one-year course in radiological physics.

Y-12 Slow Pitch Team Beats ORNL

The Y-12 team in the Oak Ridge Slow Pitch League of softball players turned in a 10 to 7 victory over Oak Ridge National Laboratory last Wednesday night. Pete Francis tossed for Y-12 with Joe Evans catching. The victors got 10 hits and made two errors while the Labsters could get but seven safeties off Francis. ORNL also made two bobbles.

Deaths from occupational accidents in 1949 totaled 15,000—about six per cent fewer than in 1948, the National Safety Council says.

BURGULARS BEWARE!! CASH REGISTER YELLS ALARM WHEN ROBBERED

Burglars, beware! The cash register will now give its own alarm, thanks to a recent invention patented by John F. Wegele, of Paterson, N.J., according to the National Patent Council. The drawer of the cash register will open normally on operation of the right combination of keys, which are located beneath the drawer; but a burglar alarm will be set off when the wrong keys are punched.

Bowlers Of Y-12 Again Sweep To Victory In Summer Loop

The Y-12 bowling team in the Oak Ridge Summer League continued to make a runaway race out of it last week by turning in its third straight four-point victory in as many weeks. The latest victims of the red hot Y-12 keggers was the Kaigen-Hughes team. Y-12 had a six point lead on the rest of the field at the end of hostilities last Thursday night at the Oak Terrace with 19 points won and but one lost.

The line score of the Y-12 triumph showed the victors posted games of 746, 787, 809—2,342 against 640, 647, 625—1,912 for the vanquished.

Ray Duckworth posted a fine 520 to lead the Y-12 pin smashers. Riddle posted 478, Gragg 475, Kendig 443 and Knox 436.

Bomb 'Know How' Said First Known

The Dallas, Tex., News recently quoted Dr. Allen F. Reid, Dallas biochemist and consultant to the Atomic Energy Commission, as saying scientists had the "know how" for making hydrogen bombs before they learned to make an atom bomb. Dr. Reid was reported to have contended that the hydrogen bomb would be from seven to eight times as powerful per pound as an atom bomb and that the big difference is in the potential size. Dr. Reid made his remarks in an address before the Texas Association of Public Accountants in Dallas.



His hands do many things-- SAFELY
DO YOURS?

THIS Y-12 PHOTOPOSTER TELLS ITS OWN STORY—AND IS A REMINDER TO ALL EMPLOYEES OF THE NECESSITY OF PROTECTING THOSE MOST IMPORTANT PARTS OF THE BODY.